STIC Biotechnology Systems Branch

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Revised 01/10/06

IFWP

RAW SEQUENCE LISTING   DATE: 07/05/2006
PATENT APPLICATION: US/10/510,148   TIME: 14:09:51

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226 aaaaaaaaaa aaaaaaaag agagagaaaa gaaaagtcag tctgaagttt ttgtgacact 11700
227 cagccagact ccacattaga taaagtaatc atggaaatac agctttattt ttataccaag 11760
228 ttgtgcttag aaagctgatt gctaaaccag gaagcttggc tttcagaatt ttactgtaat 11820
229 ccagggtgga aaaaagtat cactcagatg gcatttgtgg gagattactg actggtaatc 11880
230 cctccttgtc ctagaagatt aagtctgccc tggtgtagtc atggtcagct gatttttta 11940
231 tttatttatt ttaaataaat tgtagtttct tgttgtaagt cagccagtgt ctgatgtttg 12000
234 <210> SEQ ID NO: 2
235 <211> LENGTH: 191166
236 <212> TYPE: DNA
237 <213> ORGANISM: Homo sapiens
239 <400> SEQUENCE: 2
240 gaattcattg agctacacac tttacacaat ggaatgtctg caacaagcct atgaggtagg 60
241 attccctaaa ctcagagagc ttaagtaacc tgcccaccat cacacagcta ataaaatgta 120
242 aagtccacat tcaaattcct gtctgcctga attaaaagct catgattttt ctggaattcc 180
243 tttagacttt ataatagaaa atgaagcata acttctatct tgaaacacct gtttctttt 240
244 tttaagacat attaatatat cttaaaaaa atgttttta cagagtcagg gtcttgctct 300
245 gttgctcagt ctggagtgtg gtggcttgat cgtagctcac tgcaccctca aactcctggt 360
246 ctcaagcaac cttcccacct cagtctccca agcagctggg ccatgggcc catgccactg 420
247 caccagctaa ttttaaaaaa aaaagttatt ttctttgcag agacagggtc tcactatgtt 480
248 gcccaggctg atctcaaact gctggggctc aagcaatcct cctgcctcag cctcccaaag 540
249 cattcttaat gtcccttttac tatcattttg tgcagaatcg tgtcccaagt tcatcacaca 600
250 gtgctatggt gattgatacg ctatttgcag ggcaaataag agtagtagcg gtagtagtaa 660
251 taataattca tttcttatta taaagcattt ttacagtttt aaaataattt ttaaaacata 720
252 tatcttgatc ttttcaggag tcttatgact cctgacaggc aagtctcact attgtttact 780
253 gttgataaga actctgaagt ttggcccagc actgtggctc acgcctataa tcccagcact 840
254 ttgggaggct gagatgggag gctcacacaa acccaggaat tcgagaccag ccaggacaac 900
255 atgatgagac cccatctcct taaaaaataa aaaattagc cagccatggt ggcacgtact 960
```

RAW SEQUENCE LISTING ERROR SUMMARY   DATE: 07/05/2006
PATENT APPLICATION: US/10/510,148   TIME: 14:09:52

error explanation Input Set : A:\SEQLIST.TXT
                     Output Set: N:\CRF4\07052006\J510148.raw

Use of <220> Feature(NEW RULES):
Sequence(s)__are missing the <220> Feature and associated headings.
Use of <220> to <223> is MANDATORY if <213> ORGANISM is "Artificial Sequence"
or"Unknown". Please explain source of genetic material in <220> to <223>
section (See "Federal Register," 6/01/98, Vol. 63, No. 104,pp.29631-32)
(Sec.1.823 of new Rules)

Seq#:10,11,12,13,14,15,16,17,18,19

VERIFICATION SUMMARY   DATE: 07/05/2006
PATENT APPLICATION: US/10/510,148   TIME: 14:09:52

Input Set : **A:\SEQLIST.TXT**
Output Set: **N:\CRF4\07052006\J510148.raw**

```
L:3681 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ#:10, <213>
ORGANISM:Artificial Sequence
L:3681 M:258 W: Mandatory Feature missing, <223> Tag not found for SEQ#:10, <213>
ORGANISM:Artificial Sequence
L:3681 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:10,Line#:3681
L:3689 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ#:11, <213>
ORGANISM:Artificial Sequence
L:3689 M:258 W: Mandatory Feature missing, <223> Tag not found for SEQ#:11, <213>
ORGANISM:Artificial Sequence
L:3689 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:11,Line#:3689
L:3697 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ#:12, <213>
ORGANISM:Artificial Sequence
L:3697 M:258 W: Mandatory Feature missing, <223> Tag not found for SEQ#:12, <213>
ORGANISM:Artificial Sequence
L:3697 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:12,Line#:3697
L:3705 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ#:13, <213>
ORGANISM:Artificial Sequence
L:3705 M:258 W: Mandatory Feature missing, <223> Tag not found for SEQ#:13, <213>
ORGANISM:Artificial Sequence
L:3705 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:13,Line#:3705
L:3713 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ#:14, <213>
ORGANISM:Artificial Sequence
L:3713 M:258 W: Mandatory Feature missing, <223> Tag not found for SEQ#:14, <213>
ORGANISM:Artificial Sequence
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L:3721 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ#:15, <213>
ORGANISM:Artificial Sequence
L:3721 M:258 W: Mandatory Feature missing, <223> Tag not found for SEQ#:15, <213>
ORGANISM:Artificial Sequence
L:3721 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:15,Line#:3721
L:3729 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ#:16, <213>
ORGANISM:Artificial Sequence
L:3729 M:258 W: Mandatory Feature missing, <223> Tag not found for SEQ#:16, <213>
ORGANISM:Artificial Sequence
L:3729 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:16,Line#:3729
L:3737 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ#:17, <213>
ORGANISM:Artificial Sequence
L:3737 M:258 W: Mandatory Feature missing, <223> Tag not found for SEQ#:17, <213>
ORGANISM:Artificial Sequence
L:3737 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:17,Line#:3737
L:3745 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ#:18, <213>
ORGANISM:Artificial Sequence
L:3745 M:258 W: Mandatory Feature missing, <223> Tag not found for SEQ#:18, <213>
ORGANISM:Artificial Sequence
L:3745 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:18,Line#:3745
L:3753 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ#:19, <213>
ORGANISM:Artificial Sequence
L:3753 M:258 W: Mandatory Feature missing, <223> Tag not found for SEQ#:19, <213>
ORGANISM:Artificial Sequence
L:3753 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:19,Line#:3753
```

```
<210> 10
<211> 32
<212> DNA
<213> Artificial Sequence
```

needs explanation in <2207-<2237 section *(see p. 6 for error explanation)*

```
<400> 10
cctgaactgt ttgtacctct gggccatatt gc                              32
```

```
<210> 11
<211> 33
<212> DNA
<213> Artificial Sequence
```

same error

```
<400> 11
caaatttctg aagagtaggt gatccgggtg gag                             33
```

```
<210> 12
<211> 34
<212> DNA
<213> Artificial Sequence
```

```
<400> 12
tctaaagtag ggggaaccaa gcctgctggt ggtg                            34
```

```
<210> 13
<211> 34
<212> DNA
<213> Artificial Sequence
```

```
<400> 13
actgatagat ggaatttatt aagcttttca catg                            34
```

```
<210> 14
<211> 33
<212> DNA
<213> Artificial Sequence
```

```
<400> 14
caagttaact gagctttttc ttaatttcat tcc                             33
```

```
<210> 15
<211> 37
<212> DNA
<213> Artificial Sequence
```

```
<400> 15
gttggtacct ccacagaaga tgtttatttg atgtaac                         37
```

```
<210> 16
<211> 18
<212> DNA
<213> Artificial Sequence
```

```
<400> 16
agtcaataga agccggcg                                              18
```

```
<210> 17
```

```
<211> 20
<212> DNA
<213> Artificial Sequence

<400> 17
ggggatttag agggttctgt                                              20

<210> 18
<211> 22
<212> DNA
<213> Artificial Sequence

<400> 18
gcctgaactg tttgtacctc tg                                           22

<210> 19
<211> 24
<212> DNA
<213> Artificial Sequence

<400> 19
gagtaggtga tccgggtgga gatg                                         24
```